

What Is Claimed Is:

1 1. A device for adjusting currents of lamp tubes in a
2 display, the lamp tubes comprising a first lamp tube with a first
3 current and a second lamp tube with a second current, the device
4 comprising:

5 a feedback device for monitoring the first current and the
6 second current, and outputting a feedback signal;

7 a first switch positioned between the first lamp tube and
8 the feedback device;

9 a second switch positioned between the second lamp tube and
10 the feedback device;

11 a main control device, coupled to the feedback device, for
12 outputting a driving voltage according to the
13 feedback signal;

14 a resonance circuit, coupled to the main control device,
15 for outputting a controlling voltage signal
16 according to the driving voltage;

17 a transformer, coupled to the resonance circuit, for
18 providing a second voltage to the first and second
19 lamp tubes signal to generate the first and second
20 currents according to the controlling voltage; and

21 a low-frequency switch controller for turning on the first
22 switch and the second switch at different times;

23 wherein the feedback device receives the first current as
24 the first switch is turned on, and

25 the main control device adjusts the driving voltage
26 according to the feedback signal so as to adjust the
27 first current when the first current is not equal to
28 a predetermined value.

1 2. The device as claimed in claim 1, wherein the feedback
2 device receives the second current as the second switch is turned
3 on, and the main control device adjusts the driving voltage
4 according to the feedback signal so as to further adjust the
5 second current when the second current is not equal to the
6 predetermined value.

1 3. The device as claimed in claim 1, wherein the
2 low-frequency switch controller generates a first pulse and a
3 phase-inverted second pulse to drive the first switch and the
4 second switch alternately.

1 4. The device as claimed in claim 1, further comprising
2 a high voltage capacitor, coupled between the transformer and
3 a common point of the first and second lamp tubes, for isolating
4 a DC voltage part of the second voltage.

1 5. The device as claimed in claim 1, wherein the first
2 pulse and the second pulse has a frequency of 200Hz to 500Hz,
3 respectively.

1 6. The device as claimed in claim 1, wherein turn-on
2 times of the first and second lamp tubes are controlled by a
3 working duty of the first pulse and the second pulse.

1 7. A method for adjusting a first current of a first lamp
2 tube and a second current of a second lamp tube in a display,
3 the first lamp tube and a second lamp tube being respectively
4 turned on by a first switch and a second switch, the method
5 comprising steps of:

6 applying a driving voltage to the first and second lamp
7 tubes;
8 turning on the first switch and the second switch by a first
9 pulse and a second pulse with an inverted phase to
10 the first pulse so as to generate the first and second
11 currents of the first and second lamp tubes;
12 monitoring the first and second currents; and
13 adjusting the first current by adjusting the driving
14 voltage when the first current being not equal to a
15 predetermined value.

1 8. The method as claimed in claim 7, wherein the second
2 current is adjusted by the driving voltage as the second current
3 is not equal to the predetermined value.